

C L A I M S

1. A connector (16,18,20) for the connection of the end
portion of a pipe, a pipeline, a pipe string or coiled
tubing (10) and formed or provided with at least one
5 connecting device (22) for equipment/tools, preferably
downhole equipment/tools, said connector (16,18,20)
comprising parts (16, 18 and 20) that can be screwed
together and have aligned bores for the accommodation of
said pipe end portion, which is to be secured in the
10 connector in the screwed-together condition of the parts
(16, 18 and 20), c h a r a c t e r i z e d i n t h a t a
radially inner transversally shrinkable adapter sleeve
(20), which is to bear, in the connected position, by
its inner circumferential surface in a clamping manner
15 against the outer jacket surface of the pipe end portion
(10), has an external conically extending threaded
jacket surface, which is formed with a view to
cooperation with a surrounding outer adapter and
connector sleeve (18) with an internal conically
20 extending threaded circumferential surface, said outer
adapter and connector sleeve (18) being formed to
cooperate with a threaded jacket portion of a socket-like
connecting element (24) formed on an end piece (16) or
similar, exhibiting said connecting device (22) for
25 downhole equipment etc.
2. A connector according to claim 1, c h a r a c t e r i -
z e d i n t h a t the outer adapter and connector sleeve
(18) has an axial length that exceeds the double axial
length of the inner adapter sleeve (20), whose length
30 essentially corresponds to the depth of
entering/screwing of the socket-like connecting element
(24) into the outer sleeve (18).

3. A connector according to claim 1 or 2, c h a r a c -
t e r i z e d i n that the connector parts, which can
be screwed together, in the form of the inner sleeve
(20) and the socket-like connecting element (24) of the
5 end piece (16), both have straight cylindrical bores,
whereas the outer sleeve (18) has a straight cylindrical
outer jacket, so that the conical extent of each of said
parts (16, 18 and 20) results in a sleeve wall thickness
decreasing towards one end, the parts cooperating with
10 each other two and two, in a total wall thickness
essentially corresponding to one sleeve wall thickness.
4. A connector according to claim 1, 2 or 3, c h a r a c -
t e r i z e d i n that at the end located the farthest
from said end piece with the socket (24), the outer
15 sleeve (18) is formed with an inward annular flange
defining a sleeve bore section of a diameter generally
corresponding to the outer diameter of the coiled
tubing.
5. A connector according to claim 1, 2, 3 or 4, c h a -
20 r a c t e r i z e d i n that the inner shrinkable
adapter sleeve (20) has a threaded, preferably right-
hand threaded, internal circumferential surface, said
threads being formed with a view to resisting the
sliding, rotation and/or displacement of the inner
25 adapter sleeve (20) on the pipe end portion during and
after the establishment of the connection.
6. A method of establishing the connection and securing of
a pipe end portion (10) to/in a connector (16,18,20)
formed in accordance with one or more of the preceding
30 claims, c h a r a c t e r i z e d i n that externally
over a free pipe end portion (10), which is to be
connected to and thereby be secured in the connector, is
first passed an elongate adapter sleeve (18) with an

inner surface extending longitudinally conical, defining the sleeve bore and provided with threads, after which an inner shrinkable adapter sleeve (20) with a threaded jacket surface of an externally conical extent is passed
5 over the pipe end portion (10) and is positioned in the longitudinal direction thereof, after which the outer adapter and connector sleeve (18) is screwed by its internally threaded circumferential surface on the external threaded portion of the inner adapter sleeve
10 (20) and compresses the inner adapter sleeve (20) constantly more during the relative displacement of their cooperating conical surfaces in the longitudinal direction of the connector, whereby the portion of the outer sleeve (18), compressively enclosing the inner
15 sleeve (20), is constantly decreasing in bore diameter in the screwing, at the completion of which a free internally threaded bore wall portion of the outer sleeve (18) projects axially beyond the nearest end of the shrunk inner sleeve (20), after which the connecting
20 operation is completed in that an externally threaded, conically extending socket-like connecting element (24) of an end piece (16) included in the connector, is screwed into said free internally threaded bore wall portion of the outer sleeve (18), until the free end
25 surfaces of the outer sleeve (18) abuts, in a movement-limiting manner, an annular stop surface (28) by said connecting element (24).